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THE STONE INDUSTRY IN CANADA, 1936.

The Stone Industry in Canada comprises two main divisions:- 1. The Stone Quarrying Industry, including quarries and dressing works operated in conjunction with quarries, and 2. The Monumental and Ornamental Stone Industry, comprising the operations of firms having no quarries but who operate dressing works where stone for building and monumental purposes is cut, polished or otherwise finished. In the Census of Industry, statistics on the stone quarrying industry are included under mining, while statistics of the monumental and ornamental stone industry are included under manufactures. For convenience, this report carries data for both of these industries.

These two major divisions, constituting the Canadian stone industry, represented a capital investment of \$17,666,160 in 1936 according to finally revised statistics issued by the Mining, Metallurgical and Chemical Branch of the Dominion Bureau of Statistics, Ottawa. Production during the year totalled \$6,404,307 which figure includes the value of the quarry output and the value added by manufacturing in the secondary stone industry. Salaried employees and wage-earners employed in 1936 numbered 3,757 and their combined earnings amounted to \$3,401,024.

The two industries are treated separately in the following review.

1. PRIMARY PRODUCTION - THE STONE QUARRYING INDUSTRY

The kinds of stone quarried in Canada include granite (trap rock, syenite and other igneous rock), limestone, marble, sandstone, and slate. Stone of almost every known variety occurs in Canada; rocks of the igneous areas of British Columbia, Manitoba, Ontario, Quebec and the Maritime Provinces exhibit a wide range of physical characteristics, some varieties being especially noted for their richness of colour and beauty of crystallization. The sedimentary rocks, including limestones, sandstones and marbles are quarried at various points in Canada. The products from quarries operating in these different formations not only yield high class structural and decorative materials but provide the chemical and other allied industries with many of their increasing requirements.

The combined shipments of limestone, granite, sandstone, marble and slate from Canadian quarries during 1936 totalled 4,982,912 short tons valued at \$5,134,153 as compared with 4,317,947 short tons worth \$5,307,563 in 1935. Of the total Dominion stone production in 1936, Ontario contributed 2,706,680 short tons valued at \$2,398,456; Quebec 1,514,052 short tons at \$1,729,367; British Columbia 384,755 short tons at \$395,890 and Nova Scotia 254,572 short tons worth \$375,329; lesser quantities were shipped from properties operated in New Brunswick, Manitoba and Alberta. No commercial stone production was recorded in 1936 for Prince Edward Island, Saskatchewan or the Yukon and North West Territories.

During 1936 the relative quantities of stone shipped, by kinds, were as

follows: - Limestone 74.89 per cent, granite 18.90 per cent, sandstone 5.73 per cent, marble 0.46 per cent and slate 0.02 per cent. Some of the larger shipments consigned in 1936 for specified purposes included 985,075 tons of limestone for concrete aggregate; 1,514,661 tons of limestone for road construction; 424,996 tons of granite for railroad ballast; 476,648 tons of various rocks for rubble and riprap; 197,957 tons of limestone and marble for the manufacture of pulp and paper; 279,299 tons of limestone for smelters and steel plants; 94,031 tons of limestone and marble for agricultural purposes and 42,335 tons of both igneous and sedimentary rocks for building purposes. In addition to the foregoing consumption of limestone there were 1,180,358 tons of this stone utilized in 1936 for the manufacture of cement and over 800,000 tons for the production of lime. The production of limestone and marble for chemical purposes has shown a continuous increase since 1932; shipments of these varieties of stone in 1936 for such use (exclusive of stone for the manufacture of cement and lime) totalled 615,207 short tons valued at \$553,597 as compared with corresponding shipments of 226,966 tons at \$188,820 in 1932 and 537,799 tons at \$483,709 in 1935.

The number of firms reported as active in the Canadian stone industry during 1936 totalled 426 of which 21 were located in Nova Scotia, 7 in New Brunswick, 192 in Quebec, 169 in Ontario, 8 in Manitoba, 3 in Alberta and 26 in British Columbia.

Capital employed in the industry totalled \$11,899,852 in 1936; employees were recorded at 2,512 and salaries and wages paid amounted to \$2,043,216.

Canadian imports of stone of all kinds, together with certain manufactures of same, were appraised at \$856,242 in 1936 as compared with a value of \$808,284 in 1935. Exports of stone from Canada in 1936 were valued at \$106,870 as against \$110,969 in the preceding year.

Limestone surpasses any other rock or mineral in the number and diversity of its uses and in the quantity consumed for industrial purposes. The term "limestone" as employed in this report includes all varieties from high-calcium limestone, consisting almost entirely of the mineral calcite, to the highly magnesian variety, largely dolomite. The following information relating to limestone is from an article prepared by M. F. Goudge of the Department of Mines and Resources, Ottawa. "In the rock-wool industry - the newest of the limestone industries - silicious and argillaceous dolomitic limestone, or calcium limestone, is converted into a light, fibrous insulating material known as "rock wool" which is being widely used as a thermal and sound insulation, and as an acoustical material. The process of manufacture consists in melting the limestone (which must contain sufficient silica and alumina to make it self-fluxing) to a fluid condition and then converting the melt into fine fibres by means of a blast of air or steam or by a mechanical device ... The industries producing calcium carbide and calcium cyanamide use pure high-calcium limestone and coke as raw materials. In agriculture limestone plays a vitally important part for calcium is one of the elements essential to plant and animal life; the loss of lime compounds must be replaced if fertility of the soil is to be maintained and if the soil is to be prevented from becoming sour ... it is now known that magnesia is a plant food and both magnesian limestone and calcium limestone are now used; in fact, magnesian limestone is preferred on soils that are known to be deficient in this element."

"Limestone is also used in the manufacture of many nitrogenous fertilizers and fertilizer materials such as cyanamide, calcium nitrate, ammonocitrophosphate, calcium ammonium nitrate and ammonium sulphate and is coming into wide use as a filler in chemical fertilizers where it has replaced inert fillers such as sand and loam. ... Pulverized high-calcium limestone is used as an ingredient in stock and

poultry foods. ... Large quantities of limestone are used in the refining of beet sugar, the limestone being calcined at the refinery and both the lime and carbon dioxide gas being utilized. Lime is also used in refining cane sugar. ... The metallurgical industry consumes vast quantities of limestone and lime. In the production of iron and steel, limestone is used as a flux in the blast furnace and both limestone and lime are used in the basic open-hearth process. Crushed dolomite, either raw or calcined is used for patching and lining the floors of basic open-hearth furnaces. Lime and limestone are also used in foundry work both as flux and in dusting the surface of moulds. ... In the metallurgy of copper, lead, tin, nickel, gold, silver, cobalt, antimony, molybdenum and other metals, high-calcium limestone and lime find important applications. ... The pulp and paper industry utilized large tonnages of both lime and limestone; in the manufacture of sulphite pulp, limestone either of the high-calcium or of the magnesian type is used in the Jensen tower of process, and dolomitic lime is used in the milk-of-lime process. High-calcium lime is required for making sulphate pulp, soda pulp and rag paper. ... In the rubber industry, whiting and whiting substitute, which latter is simply a finely pulverized high-calcium limestone or marble, are used for the compounding of a wide variety of goods such as footwear, rubber heels, etc. ... the chemical industries are large consumers of limestone and lime. In the manufacture of soda ash by the ammonia-soda process, about $1\frac{1}{4}$ tons of high-calcium limestone is used per ton of soda ash produced. The stone is calcined at the chemical plant and both lime and carbon dioxide gas are used."

Table 1 - PRINCIPAL STATISTICS OF THE STONE QUARRYING INDUSTRY(x) IN CANADA,
1935 and 1936.

	1935	1936
Number of firms	372	426
Capital employed \$	12,277,518	11,899,852
Number of employees - On salary	229	254
On wages	2,246	2,258
Total ...	<u>2,475</u>	<u>2,512</u>
Salaries and wages - Salaries	\$ 340,271	\$ 360,471
Wages	<u>1,610,427</u>	<u>1,682,745</u>
Total ...	<u>\$ 1,950,698</u>	<u>\$ 2,043,216</u>
Selling value of products (Gross)	\$ 5,307,563	\$ 5,134,153
Cost of fuel and electricity	\$ 361,756	\$ 396,965
Process supplies used	\$ 372,583	\$ 444,739
Selling value of products (Net)	\$ 4,573,224	\$ 4,292,449

(x) Includes statistics for slate.

Table 2 - CAPITAL EMPLOYED, AVERAGE NUMBER OF EMPLOYEES, AND SALARIES AND WAGES PAID.
BY PROVINCES, 1934, 1935 and 1936

Provinces	Year	Number of Firms	Capital employed	Fuel, electricity(x) and process supplies used.	Number of employees	Salaries and wages paid
				\$		
Nova Scotia.	1934	10	685,853	(a)	88	68,516
	1935	11	682,156	22,939	138	130,612
	1936	21	803,155	41,879	218	182,855
New Brunswick..	1934	13	195,203	(a)	101	80,609
	1935	11	209,501	10,144	87	60,868
	1936	7	153,853	6,678	130	73,575
Quebec	1934	161	5,508,883	(a)	1,171	723,609
	1935	134	5,664,006	366,625	1,452	968,879
	1936	192	4,384,921	360,701	1,228	814,973
Ontario	1934	143	5,436,748	(a)	615	501,665
	1935	182	4,376,190	276,744	595	559,809
	1936	169	5,189,718	385,100	703	731,395
Manitoba ...	1934	6	547,241	(a)	34	52,677
	1935	6	542,625	30,309	87	113,776
	1936	8	649,810	11,527	54	48,926
Alberta ..(b)	1934	2	-	(a)	-	-
	(b)1935	2	-	3,948(c)	-	-
	(b)1936	3	1,825	305	3	2,411
British Columbia ..						
	1934	19	609,908	(a)	78	72,196
	1935	26	803,040	23,630	116	116,754
	1936	26	716,570	35,514	176	189,081
TOTAL - CANADA						
	1934	-	12,985,836	(a)	2,087	1,499,272
	1935	-	12,277,518	734,339	2,475	1,950,698
	1936	-	11,899,852	841,704	2,512	2,043,216

(x) Exclusive of electricity generated by operator.

(a) Not complete.

(b) Data included with figures on the "Lime" industry.

(c) Process supplies only.

Table 3 -- AVERAGE NUMBER OF WAGE-EARNERS, BY MONTHS, 1934, 1935 and 1936.

Month	1934	1935	1936	Month	1934	1935	1936
January	671	779	1,119	July	3,172	3,076	3,305
February	676	839	1,024	August	2,951	3,318	3,232
March	845	1,069	1,245	September ...	2,703	3,287	2,699
April	1,169	1,580	1,891	October	2,366	3,175	2,610
May	2,065	2,440	2,871	November	1,814	2,584	2,204
June	2,893	2,890	3,407	December	1,115	1,643	1,266

Table 4 -- NUMBER OF WAGE-EARNERS IN MONTH OF HIGHEST EMPLOYMENT WHOSE REGULAR HOURS PER WEEK WERE -

Hours	1935		1936		Hours	1935		1936	
	No.	No.	No.	No.		No.	No.	No.	No.
40 or less ...	465	528	51-53	64	27				
41-43	69	32	54	749	543				
44	282	143	55	170	246				
45-47	169	83	56-59	211	159				
48	1,023	1,297	60	933	661				
49-50	181	103	Over 60 ...	137	429				

Table 5 - FUEL AND ELECTRICITY USED, 1935 and 1936.

Kind	Unit of measure	1935		1936	
		Quantity	Cost at works	Quantity	Cost at works
Anthracite coal	short ton	679	\$ 4,882	1,887	\$ 13,577
Bituminous coal - Canadian	short ton	4,799	39,229	4,333	31,677
Imported	short ton	3,290	23,108	6,479	44,293
Lignite coal	short ton	102	678	-	-
Coke	short ton	-	-	-	-
Gasoline	Imp. gal.	176,008	36,898	239,804	49,578
Kerosene	Imp. gal.	3,189	590	3,521	446
Fuel oil	Imp. gal.	67,622	6,949	134,180	16,492
Wood	cord	3,679	10,543	5,245	13,424
Other fuel	XXXX	-	8,784	-	-
Electricity purchased	K. W. H.	17,180,620	230,095	17,467,894	227,478
TOTAL	XXXX	-	361,756	-	396,965

Electricity generated for own use, K. W. H. 339,250

Table 6 - POWER INSTALLATION, 1936.

	Ordinarily in use		In reserve or idle	
	Number of units	Total h.p. (according to manufacturers' rating)	Number of units	Total h.p. (according to manufacturers' rating)
Steam engines and steam turbines	93	3,301	17	1,247
Diesel engines	23	2,544	4	135
Gasoline, gas and oil engines other than diesel	118	4,084	15	250
Hydraulic turbines or water wheels ...	6	725	10	495
Electric motors run by purchased power.	748	22,438	60	1,856
Electric motors run by own power	29	1,860	8	315
TOTAL POWER EMPLOYED	1,017	34,952	114	4,298
Boilers installed	68	2,819	17	840

Table 7 - The following table gives the value of construction contracts awarded in Canada from 1925 to 1936, also index numbers of wholesale prices of building materials, index numbers of wage rates and value of total stone produced.

Year	Value of construction contracts awarded in Canada (a)	Value of Canadian primary stone production (b)	Average index numbers of employment	Average index numbers of wholesale prices of building materials	Index of wage- rates in the build- ing trades (1913=100)
			1926=100	(1926=100)	
\$	\$	\$			
1925	297,973,000	7,464,777	84.9	102.9	170.4
1926	372,947,900	7,865,874	100.0	100.0	172.1
1927	418,951,600	9,265,304	109.0	96.1	179.3
1928	472,032,600	10,272,301	118.8	97.4	185.6
1929	576,651,800	12,066,532	129.7	99.0	197.5
1930	456,999,600	13,037,209	129.8	90.8	203.2
1931	315,482,000	11,075,184	131.4	81.9	195.7
1932	132,872,400	4,942,211	86.0	77.2	178.2
1933	97,289,800	3,000,326	74.6	78.3	158.0
1934	125,811,500	4,157,131	109.3	82.5	154.8
1935	160,305,000	5,307,563	97.8	81.2	160.8
1936	162,588,000	5,134,153	88.2	85.3	165.3

(a) Compiled by McLean Building Reports Ltd.

(b) Includes slate.

Note: The value of construction contracts awarded in Canada during the eleven months ending November 30th, 1937, totalled \$213,293,100 according to "McLean Building Reports Ltd."

Table 8 - PRODUCTION(SALES) OF STONE FROM CANADIAN QUARRIES, BY KINDS AND BY PROVINCES.
1935 and 1936

Province		Granite (b)	Limestone (a)	Marble	Sandstone	TOTAL
<u>1935</u>						
Nova Scotia	tons	525	8,988	-	202,952	212,465
	\$	23,800	19,188	-	578,844	621,832
New Brunswick	tons	31,091	53,213	-	840	85,144
	\$	103,275	86,001	-	19,447	208,723
Quebec	tons	131,096	1,143,983	10,518	104,920	1,390,517
	\$	800,685	1,087,320	43,455	122,301	2,053,761
Ontario	tons	44,473	2,061,206	4,726	12,536	2,122,941
	\$	93,465	1,680,810	35,210	54,407	1,863,892
Manitoba	tons	387	146,100	127	-	146,614
	\$	4,630	183,892	1,233	-	189,755
Alberta	tons	-	2,242	-	-	2,242
	\$	-	6,981	-	-	6,981
British Columbia	tons	118,782	215,933	604	21,576	356,895
	\$	100,432	189,381	5,471	63,006	358,290
CANADA	tons	326,354	3,631,665	15,975	342,824	4,316,818
	\$	1,126,287	3,253,573	85,369	838,005	5,303,234
<u>1936</u>						
Nova Scotia	tons	66,507	20,860	-	167,205	254,572
	\$	99,855	36,365	-	239,109	375,329
New Brunswick	tons	1,485	53,781	-	4,165	59,431
	\$	73,784	55,564	-	4,410	133,758
Quebec	tons	137,912	1,265,243	17,866	92,228	1,513,249
	\$	429,283	1,058,547	138,294	102,388	1,728,512
Ontario	tons	492,227	2,205,992	4,765	3,438	2,706,420
	\$	582,603	1,773,764	29,204	10,805	2,396,376
Manitoba	tons	185	49,261	60	-	49,506
	\$	2,038	69,837	90	-	71,965
Alberta	tons	-	13,876	-	40	13,916
	\$	-	26,188	-	3,200	29,388
British Columbia	tons	243,427	122,535	175	18,434	384,571
	\$	131,750	123,607	2,110	135,944	393,411
CANADA	tons	941,743	3,731,548	22,866	285,508	4,981,665
	\$	1,319,313	3,143,872	169,698	495,856	5,128,739

NOTE - In addition to the above production there were produced 1,247 tons of slate valued at \$5,414 in 1936 and 1,129 tons at \$4,329 in 1935; also not included in the limestone statistics are 1,180,358 tons of limestone consumed in the cement industry in 1936 and 818,443 tons in 1935. Limestone used in the Canadian lime industry is also not included; it is estimated that approximately 800,000 tons of limestone were burned in the manufacture of lime in 1936.

(a) Includes dolomite, also marl for agricultural purposes.

(b) All igneous rocks included.

Table 9 -

PRODUCTION (SALES) OF STONE FROM CANADIAN QUARRIES BY KINDS SHOWING PURPOSES FOR WHICH USED, 1935 and 1936.

For use as follows -		Granite	Limestone(a)	Marble	Sandstone	TOTAL
1935						
Building stone -	Rough	tons \$ 5,135	105,086	564	25,219	136,004
	Dressed	tons \$ 10,315	128,245	13,134	121,839	316,143
Monumental and ornamental stone -	Rough	tons \$ 5,313	81	165	2,223	64,895
	Dressed	tons \$ 48,859	215	14,628	-	63,702
Flagstone	tons \$	9,231 277,568	49 1,680	-	-	9,280 279,248
Curbstone	tons \$	1,351 10,052	407 357	-	573 3,117	980 3,474
Paving blocks	tons \$	7,342 67,538	-	-	-	7,342 67,538
Lining open-hearth furnaces.	tons \$	-	562	-	-	562
			1,187	-	-	1,187
Chemical -						
Flux in iron and steel plants	tons \$	-	138,216	-	-	138,216
			92,836	-	-	92,836
Flux in smelters	tons \$	-	131,413	-	-	131,413
			94,022	-	-	94,022
Glass factories	tons \$	-	990	1,718	-	2,708
			1,484	10,368	-	11,852
Pulp and paper mills	tons \$	-	158,314	2,556	-	160,870
			163,767	2,017	-	165,784
Sugar refineries	tons \$	-	16,743	-	-	16,743
			12,801	-	-	12,801
Other chemical uses	tons \$	-	87,849	-	-	87,849
			106,414	-	-	106,414
Whiting	tons \$	-	-	190	-	190
			-	1,295	-	1,295
Asphalt filler	tons \$	51 408	6,672 20,461	-	-	6,723 20,869
Dusting coal mines	tons \$	-	740	-	-	740
			2,641	-	-	2,641
Agricultural purposes	tons \$	-	87,879	5	-	87,884
			134,686	30	-	134,713
Rock wool	tons \$	-	1,173	-	-	1,173
			873	-	-	873
Roofing	tons \$	3,623 28,984	-	52 416	-	3,675 29,400
Poultry grit	tons \$	7 105	1,096 4,054	1,232 4,545	-	2,335 8,704
Stucco dash (x)	tons \$	-	84	1,588	-	1,672
Terrazzo flooring	tons \$	-	876	7,778 1,182	280	8,654 1,462
Rubble and riprap	tons \$	139,648 89,235	166,142 100,887	4,982 4,825	194 3,712	6,703 314,484 3,590
						198,537

Table 9 - PRODUCTION (SALES) OF STONE FROM CANADIAN QUARRIES BY KINDS SHOWING PURPOSES FOR WHICH USED, 1935 and 1936 (continued)

For use as follows -		Granite	Limestone (a)	Marble	Sandstone	TOTAL
1935 - concluded						
Crushed stone -						
Concrete aggregate	tons	17,026	771,591	1,252	14,850	804,719
	\$	10,138	502,735	3,824	7,150	523,847
Road metal	tons	113,712	1,590,420	-	272,231	1,976,363
	\$	127,390	1,278,652	-	581,309	1,987,351
Railroad ballast	tons	13,600	313,966	-	23,736	351,302
	\$	9,134	179,453	-	23,406	211,993
TOTAL CANADA (a)	tons	326,354	3,631,665	15,975	342,824	4,516,818
	\$	1,126,287	3,253,573	85,369	838,005	5,303,234

(x) includes granules for roofing purposes. (a) Does not include limestone used in Canadian lime and cement industries, but includes marl used for agricultural purposes.

For use as follows -		Granite(b)	Limestone(a)	Marble	Sandstone	TOTAL
1936						
Building stone - Rough	tons	2,840	15,418	129	2,195	20,582
	\$	10,472	57,199	5,690	7,736	81,097
Dressed	tons	5,624	11,465	937	3,727	21,753
	\$	171,858	189,064	104,738	167,859	633,519
Monumental and ornamental stone -	tons	4,087	84	419	-	4,590
Rough	tons	35,234	1,857	12,190	-	49,281
	\$	4,355	30	-	-	4,385
	\$	231,482	893	--	-	232,375
Flagstone	tons	10	340	-	631	981
	\$	90	1,806	-	2,772	4,668
Curbstone	tons	3,339	-	-	-	3,339
	\$	21,793	-	-	-	21,793
Paving blocks	tons	289	-	-	-	289
	\$	2,484	-	-	-	2,484
Lining open-hearth furnaces .	tons	-	895	-	-	895
	\$	-	1,713	-	-	1,713
Chemical -						
Flux in iron and steel plants.	tons	-	187,169	-	-	187,169
	\$	-	122,706	-	-	122,706
Flux in smelters	tons	-	92,130	-	-	92,130
	\$	-	64,534	-	-	64,534
Glass factories	tons	-	1,278	2,300	-	3,578
	\$	-	1,916	8,200	-	10,116
Pulp and paper mills	tons	-	192,997	4,960	-	197,957
	\$	-	193,555	3,968	-	197,523
Sugar refineries	tons	-	23,207	-	-	23,207
	\$	-	26,903	-	-	26,903
Other chemical uses	tons	-	107,761	3,405	-	111,166
	\$	-	129,091	2,724	-	131,815
Whiting	tons	-	-	-	-	-
	\$	-	-	-	-	-
Asphalt filler	tons	6,413	3,766	-	-	10,179
	\$	4,827	10,242	-	-	15,069
Dusting coal mines	tons	-	806	-	-	806
	\$	-	3,226	-	-	3,226
Agricultural purposes	tons	-	93,071	960	-	94,031
	\$	-	114,477	1,920	-	116,397

Table 9 - PRODUCTION (SALES) OF STONE FROM CANADIAN QUARRIES BY KINDS SHOWING PURPOSES FOR WHICH USED, 1935 and 1936 (concluded)

For use as follows -		Granite(b)	Limestone(a)	Marble	Sandstone	TOTAL
1936 - concluded.						
Crushed stone for manufacture	tons	-	-	987	-	987
of artificial stone	\$	-	-	5,137	-	5,137
Rock wool	tons	-	9,634	-	-	9,634
	\$	-	10,016	-	-	10,016
Roofing	tons	9,255	-	-	-	9,255
	\$	74,040	-	-	-	74,040
Poultry grit	tons	-	1,250	1,402	-	2,652
	\$	-	4,653	5,233	-	9,886
Stucco dash	tons	3	479	1,478	-	1,960
	\$	50	2,901	6,098	-	9,049
Terrazzo flooring	tons	5	-	2,137	-	2,142
	\$	100	-	11,304	-	11,404
Rubble and riprap	tons	295,063	171,407	2,102	7,273	475,845
	\$	121,680	121,106	1,362	6,433	250,581
Crushed stone -						
Concrete aggregate	tons	25,445	985,075	650	2,975	1,014,145
	\$	32,921	694,198	627	2,871	730,617
Road metal	tons	160,019	1,514,661	1,000	228,247	1,903,927
	\$	195,095	1,182,909	507	274,623	1,653,134
Railroad ballast	tons	424,996	318,625	-	40,460	784,081
	\$	417,187	208,907	-	33,562	659,656
TOTAL CANADA (a)	tons	941,743	3,731,548	22,866	285,508	4,981,665
	\$	1,319,313	3,143,872	169,698	495,856	5,128,739

(a) Does not include limestone used in

Canadian lime and cement industries, but includes marl used for agricultural purposes. (b) Includes all igneous rock.

Table 10 - PRODUCTION OF GRANITE(x) IN CANADA, 1927 - 1936.

Year	Short tons	\$	Year	Short tons	\$
1927	730,049	1,383,557	1932	490,822	1,110,582
1928	1,195,810	2,366,946	1933	256,723	679,585
1929	1,728,165	3,080,815	1934	200,285	781,739
1930	1,851,132	3,379,951	1935	326,354	1,126,287
1931	1,190,887	3,763,050	1936	941,743	1,319,313

(x) Includes all igneous rock.

Table 11 - PRODUCTION OF LIMESTONE IN CANADA, 1927 - 1936.

Year	Short tons	\$	Year	Short tons	\$
1927	6,438,379	7,145,917	1932	3,687,241	3,227,715
1928	6,949,420	7,267,437	1933	2,572,911	2,142,516
1929	7,720,840	8,172,681	1934	3,747,779	3,157,832
1930	7,732,675	8,075,616	1935	3,631,665	3,253,575
1931	6,262,430	6,305,538	1936	3,731,548	3,143,872

Table 12 - PRODUCTION OF SANDSTONE IN CANADA, 1927-1936.

Year	Short tons	\$	Year	Short tons	\$
1927	132,799	232,793	1932	500,480	349,458
1928	100,951	223,236	1933	99,043	108,562
1929	159,407	398,974	1934	115,169	143,283
1930	384,610	769,060	1935	342,824	838,005
1931	924,101	1,332,883	1936	285,508	495,856

Table 13 - PRODUCTION OF MARBLE IN CANADA, 1927 - 1936.

Year	Short tons	\$	Year	Short tons	\$
1927	5,209	503,037	1932	12,379	250,706
1928	7,753	414,682	1933	10,897	65,913
1929	14,012	414,062	1934	13,783	69,475
1930	26,089	809,582	1935	15,975	85,369
1931	20,442	668,713	1936	22,866	169,698

Table 14 - PRODUCTION OF SLATE IN CANADA, 1927 - 1936.

Year	Short tons	\$	Year	Short tons	\$
1927	No production		1932	250	3,750
1928	No production		1933	250	3,750
1929	No production		1934	738	4,802
1930	150	3,000	1935	1,129	4,329
1931	250	5,000	1936	1,247(x)	5,414

(x) 444 short tons for roofing purposes and 803 short tons as rubble and riprap.

Table 15 - PRODUCTION OF STONE FOR BUILDING PURPOSES, CHEMICAL USE, CEMENT MANUFACTURE, CONCRETE AGGREGATE, ROAD METAL AND RAILWAY BALLAST, 1930-1936.

	Building stone(a)	For chemical purposes(b)	For concrete aggregate	For road metal	For railroad ballast	For cement manufacture
1930 - tons	173,204	586,456	2,115,104	3,910,245	2,036,981	2,925,399
\$	4,184,778	540,534	1,623,904	3,434,935	1,674,298	-
1931 - tons	129,345	333,699	3,275,276	3,122,633	652,352	2,489,147
\$	3,717,993	314,088	2,565,204	2,557,515	485,447	-
1932 - tons	62,951	226,966	1,929,756	1,847,371	89,835	1,141,376
\$	1,035,571	188,820	1,320,088	1,474,870	84,930	-
1933 - tons	40,299	315,287	981,460	1,212,981	93,624	616,364
\$	340,852	297,652	682,213	969,504	52,359	-
1934 - tons	52,665	489,580	821,099	2,062,487	345,802	806,546
\$	490,095	447,429	608,240	1,668,927	209,296	-
1935 - tons	200,899	537,799	804,719	1,976,363	351,302	818,443
\$	1,258,741	485,709	523,847	1,987,351	211,993	-
1936 - tons	42,335	615,207	1,014,145	1,903,927	784,081	1,180,358
\$	714,616	553,597	730,617	1,653,134	659,656	-

(a) Does not include monumental or ornamental stone.

(b) Does not include limestone used in Canadian lime industry.

THE THERMAL CONDUCTIVITY OF SUNDY MATERIALS

The Thermal Conductivity of many of the commoner insulating materials has become a matter of some economic importance ever since the public has appreciated the fact that by insulating the walls of houses, substantial savings in fuel consumption can be effected. The National Research Council is equipped with a hot-plate for measuring the heat transmission of small samples 18 inches square and a hot-box for measuring large samples 6 feet square in the form of walls. Some results obtained on their hot-plate apparatus are given in Table 16.

Table 16 - THE THERMAL CONDUCTIVITY OF SUNDY MATERIALS (1)

Material	Thickness (inches)	Moisture %	Density lb. per cu. ft.	Mean Temp. °F.	Conductivity B.T.U. per hr., per sq.ft., per °F., per in.
Wood fibre	0.520	4.3	16.0	52	0.358
Cardboard	0.199	7.8	31.8	54	0.449
Cork	1.029	0.9	11.5	46	0.302
Plaster board	0.379	8.0	48.8	31	0.998
Flax waste	0.833	6.4	10.8	50	0.323
Eel-grass	0.228	9.7	6.5	46	0.251
Animal Wool	0.273	8.1	7.9	51	0.229
Asbestos cement	1.130	1.0	45.0	44	1.100
Gypsum	1.021	0.9	11.0	46	0.357
Asbestos and Crushed					
Rock	1.079	0.5	80.0	65	1.48
Lime and diatomite ..	1.341	2.0	42.0	56	0.87
Concrete and cinder ..	2.690	-	48.5	58	1.28
Rock wool	1.100	Negligible	6.1	55	0.247
Sphagnum peat moss ..	1.106	11.0	3.9	58	0.264

(1) Contributed by C. D. Niven - Physicist, National Research Laboratories, Ottawa.

Table 17 - IMPORTS INTO CANADA AND EXPORTS OF STONE, BY KINDS, 1935 and 1936.

IMPORTS -	1935		1936		
	Tons	Value	Tons	Value	
Curling stones and handles	Pair	\$ 412	10,079	\$ 618	13,354
Building stone, other than marble or granite, sawn on more than two sides, but not sawn on more than four sides	8	138	-	-	
Building stone, other than marble or granite, planed, turned, cut, or further manufactured than sawn on four sides	20	1,127	87	9,222	
Flagstone, sandstone, and all building stone, not hammered, sawn or chiselled	4,749	20,193	3,049	20,446	
Flagstone and building stone, other than marble or granite, sawn on not more than two sides ...	514	3,091	460	3,456	
Granite, rough, not hammered or chiselled	-	65,185	-	70,667	
Granite, sawn only	-	8,336	-	7,094	
Granite, monuments	-	22,008	-	17,628	
Granite, manufactures of, n.o.p.	-	3,607	-	4,733	
Marble, rough, not hammered or chiselled	-	4,926	-	15,765	
Marble, sawn or sand rubbed, not polished	-	9,685	-	24,107	
Marble, not further manufactured than sawn for tombstones	-	15,246	-	11,715	

Table 17 - IMPORTS INTO CANADA AND EXPORTS OF STONE, BY KINDS, 1935 and 1936 (concl.)

	1935	1936		
	Tons	Value	Tons	Value
<u>IMPORTS - concluded.</u>				
Marble, manufactures of, n.o.p.	-	9,640	-	15,774
Paving blocks of stone	-	-	-	20
Refuse stone, not sawn, hammered or chiselled.	382,186	202,416	304,440	184,481
Slate roofingsquare	1,424	11,197	1,426	12,294
Slate pencils and school writing slates	-	18,896	-	8,524
Slate mantels and manufactures of slate, n.o.p.	-	6,295	-	13,337
Chalk, china, Cornwall or cliff stone and mica schist	-	20,229	-	32,253
Mineral wool	962	57,877	1,196	101,592
Whiting, gilders' whiting and Paris white	12,366	118,731	12,498	121,017
Manufactures of stone, n.o.p.	-	19,416	-	17,055
Lithographic stones not engraved	-	391	-	186
Chalk prepared	-	8,396	-	8,219
Pumice and pumice stone, lava and calcareous tufa, not further manufactured than ground .	-	30,971	-	21,275
Grindstones, not mounted, and not less than 36 inches in diameter No.	1,089	140,208	1,013	122,028

TOTAL - 808,284 - 856,242

EXPORTS -

Crushed stone	54,669	98,244	49,728	90,924
Granite and marble, unwrought	1,255	10,301	1,156	8,788
Freestone, limestone, and other building stone, unwrought	47	433	571	2,090
Dressed stone of all kinds	-	1,917	-	3,380
Grindstones, manufactured	-	74	-	1,688

TOTAL - 110,969 - 106,870

DIRECTORY, 1936

STONE QUARRYING INDUSTRY.

Note - (x) Firms operating dressing works in conjunction with quarry.

Name	Head Office Address	Location
<u>GRANITE</u>		
NOVA SCOTIA -		
Bower, A. R.	Box 255, Shelburne	Birchtown
(x) Dauphinee, W. T.	Shelburne	Shelburne
Dibblee Construction Co. Ltd.	248 Albert St., Ottawa, Ont.	East Sackville
(x) Nixon, W. H.	R. R. 3, Middleton	Nictaux West
(x) Rice Bros.	Lawrencetown	Nictaux West
(x) Rice, W. D.	Middleton	Nictaux West
(x) Shelburne Marble & Granite Wks.	Shelburne	Birchtown
NEW BRUNSWICK -		
(x) Granite St. Paving & Con. Co. Ltd.	Rothesay Ave., Saint John	Hampstead
(x) Milne Coutts & Co. Ltd.	St. George	St. George
(x) B. Mooney & Sons Realty Ltd.	Box 727, Saint John	Hampstead
(x) O'Brien & Baldwin	St. George	St. George
QUEBEC -		
Alcoa Power Co. Ltd.	Chute a Caron	Chicoutimi Co.
B. & R. Granite Quarry	Beebe	Ogden Twp.
Bernier, Stanley	St. Joseph d'Alma	St. Joseph d'Alma
(x) Bernier & Fils	Box 491, Roberval	Roberval
(x) Berube, Lucien	Brownsville	Chatham Twp.
(x) Brodie's Ltd.	1070 Bleury St., Montreal	(Mt. Johnson (Guenette (Graniteville
Bullock, Wright	Graniteville	Ogden Twp,
(x) Bussiere, C. L.	St. Sebastien	Ste. Cecile
Chicoutimi, City of	Chicoutimi	St. Paul Twp.
(x) Cloutier, R. L.	Beebe	Beebe
Delwaide, Anselme	Chicoutimi	Simard Twp.
(x) Deschambault Quarry Corp.	56 Rue St. Pierre, Quebec	St. Gerard de Wolfe
Diamond Granite Co.	Beebe	Stanstead Twp.
Dontigny, Alphonse	Shawinigan Falls	Ste. Flore
(x) Drummond Quarry Ltd.	Drummondville	Drummondville
(x) Dubois, L.	Riviere a Pierre	Colbert Twp.
Dumas, Auguste	Riviere a Pierre	Bois Twp.
Foundation Co. of Can. Ltd.	485 McGill St., Montreal	Saguenay Co.
(x) Gagnon, Arthur	76 Rue St. Louis, Quebec	Chemin St. Louis
(x) Gingras a Frere Ltée.	St. Marc des Carrières	Stanhope
(x) Granit National Ltée., Le	St. Joseph d'Alma	Lac St. Jean Co.
Granit Rouge de St. Canut Enrg.	757 Mont Royal Est, Montreal	St. Canut
Grenier Elie	Glenada	Glenada
(x) Guenette Granite Co. Ltd.	Guenette	Campbell Twp.
Haselton, W. M.	Beebe	Stanstead Co.
Henrikson and Hokansson	Graniteville	Graniteville
(x) Inter-Provincial Construction Ltd.	Vadreuil	Rigaud

DIRECTORY, 1936 (continued)

STONE QUARRYING INDUSTRY

Note - (x) Firms operating dressing works in conjunction with quarry.

GRANITE - concluded.

Name	Head Office Address	Location
QUEBEC - concluded		
Jonquière, Ville de	Jonquière	Jonquière
Komo Construction Enrg.	812 ¹ St. Vallier, Quebec	Beebe
Lacasse & Boulais	Box 23, Beebe	Beebe
Lavers, Clifford	Box 72, Beebe	Ogden Twp.
McIntosh, Robert	Beebe	Bois Twp.
(x) Perron, J. S.	Rivière à Pierre	Various
Quebec Dept. of Highways	Quebec	Port Alfred
Port Alfred, Town of	Port Alfred	Chambly Co.
St. Bruno Quarry & Paving Co. Ltd.	636 Ave., Querbes, Outremont	(Rivière-à-Pierre
(x) Silver Granite Co. Ltd.	180 Côte d'Abraham, Quebec	(St. Samuel
(x) Stanstead Granite Quarries Co. Ltd.	Beebe	Graniteville
St. Joseph d'Alma, Town of	St. Joseph d'Alma	Lac St. Jean Co.
(x) Thibodeau and St. Pierre	Rivière à Pierre	Bois Twp.
(x) Wilkinson, Frank L.	Beebe	Stanstead Co.
ONTARIO -		
(x) Building Products Ltd.	Box 2529 Montreal, Que.	Verona,
Fort William, City of	Fort William	Mountain Grove
Grenville Crushed Rock Co. Ltd.	917 Keefer Bldg., Montreal	Mt. McKay
(x) Hall, R. R.	Parry Sound	Hawk Lake
(x) Horne, Wm.	Butler via Ignace	Parry Sound
Hydro Electric Power Commission	620 University Ave., Toronto	Butler
McKee, Wm.	Lansdowne	Dist. of Patricia
Ontario Rock Co. Ltd.	320 Bay St., Toronto	Lansdowne
(x) Winnitoba Marble Co. Ltd.	1180 Wall St., Winnipeg	Belmont Twp.
MANITOBA -		
(x) Winnitoba Marble Co. Ltd.	1180 Wall St., Winnipeg	Hawk Lake
BRITISH COLUMBIA -		
(x) B. C. Monumental Works Ltd.	27 Kingsway, Vancouver	Granite Island
Canadian National Railways	Montreal, Que.	Various
Coast Quarries Ltd.	1840 Georgia St., W., Vancouver	Granite Falls
Gilley Bros. Ltd.	902 Columbia St., W.	New Westminster
Huchcroft Quarries	Box 54, Cranbrook	Cranbrook
(x) Nelson Granite & Monumental Co.	Box 865, Nelson	Nelson
Port Alberni, City of	Port Alberni	Alberni
Prince Rupert, City of	Prince Rupert	Prince Rupert
(x) Vancouver Granite Co. Ltd.	1007 Royal Bank Bldg., Vancouver	Nelson Island
(x) Vernon Granite & Marble Co.	Okanagan Landing	Yale Dist.
(x) Wilson, James S.	Sirdar	Sirdar

DIRECTORY, 1936. (continued)

STONE QUARRYING INDUSTRY

Note - (x) Firms operating dressing works in conjunction with quarry.

LIMESTONE

Name	Head Office Address	Location
NOVA SCOTIA		
Eastern Lime Co. Ltd.	Windsor	Windsor
Kirkpatrick, Robie	Kirkhill	Kirkhill
MacLean & Co.	Oxford	Nappan
McDonald, J. A.	Glen Alpine	Hillcrest
McVicar & McDonald	Bailey's Brook	(Bailey's Brook (McLellan's Brook (Lime Rock
Mersey Paper Co. Ltd.	Brooklyn	East River
Montgomery, D.J.	Meadow	Meadow & Skir Dhu
Mosher, O.P.	Musquodoboit Harbour	Musquodoboit Hbr.
North Inverness Lime Co. Assoc.	Cheticamp	North Inverness
N. S. Dept. of Agriculture	Truro	Various
Smiley, Howard	Newport	Hants Co.
NEW BRUNSWICK		
Randolph & Baker	Randolph	Randolph
Snowflake Lime Ltd.	Saint John	Saint John
QUEBEC		
Andorno, J. E.	Cap St. Martin	Cap St. Martin
Baillargeon & Faubert	62 Union Bldg., St. Lambert	Caughnawaga
Beaudry J. Pitro	41 rue Taché, Joliette	Blvd, Querbes
Boily, Albert	Baie St. Paul	Charlevoix Co.
Boivin, Ladislas	Baie St. Paul	Baie St. Paul
Canada Cement Co. Ltd.	Phillips Square, Montreal	Hull Twp.
Canadian Quarries Ltd.	4650 Rosemont Blvd., Montreal	Montreal
Carrière du Cap Martin Enrg.	636 Querbes, Outremont	Cap St. Martin
Carrière Gravel Ltd.	Chateau Richer	Chateau Richer
(x) Carrière Marcil Ltd.	St. Michel Station	Chateauguay
Carrière de St. Barthélemi Ltd.	St. Barthélemi	St. Barthélemi
Carrières St. Marc Ltd.	St. Marc des Carrières	St. Marc des Carrières
Carrière St. Maurice Ltd.	307 rue Alexandre, Trois Rivières	Champlain Co.
(x) Cercle Agricole	St. Godefroy	St. Godefroy
(x) Charron, Arthur	Belanger	Laval Co.
(x) Charbonneau & Frère	St. Francois de Sales	Laval Co.
Chenel, Rev. J. E.	Port Daniel East	Port Daniel E.
Delisle, E.	Pont Rouge	Pont Rouge
(x) Dept. of Justice	Ottawa	St. Vincent de Paul
Deraiche, Madame F. X.	Port Daniel East	Port Daniel
(x) Deschambault Quarry Corp.	56 Rue S. Pierre, Quebec	St. Marc des Carrières
(x) Dominion Lime Co.	Lime Ridge	Lime Ridge

DIRECTORY, 1936. (continued)

STONE QUARRYING INDUSTRY

Note - (x) Firms operating dressing works in conjunction with quarry.

LIMESTONE - continued.

<u>Name</u>	<u>Head Office Address</u>	<u>Location</u>
<u>QUEBEC</u> -- continued		
Drouin, Madame Eva Cimon	Ste. Justine	Ste. Justine
Dubé, Philippe	St. Clement	St. Paul de la Croix
Durocher, Cyrille	11021 Notre Dame E. Montreal	Montreal E.
(x) Faubert, Alphonse	De Léry	Chateauguay Co.
Filion, Adelard	Lachute	Lachute
Filion, Donat et Frère	123 rue Papineau, Hull	Hull
Francoeur, J. B.	Kelley	Kelley
Fuger and Smith Ltd.	Pointe Claire	Pointe Claire
Gagné, Octave	St. Ulric	Matane Co.
Gagnon & Bourassa	115½ Ave. Cartier, Québec	Chateau Richer
(x) Gauthier, Olivier	St. Marc des Carrières	St. Marc des Carrières
Gauthier, René	Village Bélanger	Laval Co.
(x) Gingras et Frère Ltée.	St. Marc des Carrières	St. Marc des Carrières
Giroux, F. A.	210 Ave. Royal, St. Louis de Courville	St.L.de Courville
Harrison, Georges et Cie	Poncheville	Matane Co.
Kennedy Construction Co. Ltd.	407 McGill St., Montreal	Actonvale
Laberge and Marchand	Chateauguay	Chateauguay
Lacouline, T.	Chateau Richer	Chateau Richer
Lagace, Nap	L'Abord-a-Plouffe	Rouge la Martin
(x) Lapointe, A. & E.	12034 Lachapelle, Montreal	Cartierville
Lapointe, Emile	St. Dominique, Bagot	St. Dominique, Bagot
Laruentian Stone Co. Ltd.	195 Nicholas St., Ottawa	Wrightville
Leclerc, Edouard	St. Joachim de Montmorency	Montmorency dist.
Leclerc, J. J.	Rimouski,	Rimouski
Leclerc & Robitaille	c/o Le Granit National Ltée	
(x) Lecrenier, Victor	St. Joseph d'Alma	Roberval
Leger and Charlton Ltd.	8465 Rue Berrie, Montreal	Cap St. Martin
Levesque, Armand	400 Notre Dame St., Lachine	Lachine
(x) Martineau Fils Ltée	Roberval	Roberval
	517 Marie-Anne E. Montreal	Pont Viau, Montreal
Mathew Devito Construction Ltd.	6138 rue Hamilton, Montreal	Pointe Claire
Mercure, C.	9 rue St. Denis, St. Hyacinthe	Bagot Co.
Miner, R. H. Co. Ltd.	7411 Delanaudiere St., Montreal	St. Laurent
Montreal Quarry Ltd.	1340 Bellechasse, Montreal	Montreal
National Quarries Ltd.	6301 Park Ave., Montreal	Cote St. Michel
Naud, Oscar	Lachevrotière	St. Marc des Carrières
(x) Noel, Oscar	44 Wright St., Hull	Hull
Pagé, Jas.	Charlesbourg	Quebec Co.
Paquette, Lévis, et Cie.	Cap St. Martin	Cap St. Martin

DIRECTORY, 1936. (continued)

STONE QUARRYING INDUSTRY

Note -- (x) Firms operating dressing works in conjunction with quarry.

LIMESTONE -- continued

<u>Name</u>	<u>Head Office Address</u>	<u>Location</u>
QUEBEC -- concluded		
(x) Pearson, Honoré	Port Daniel East	Bonaventure Co.
Quebec Dept. of Highways	Quebec	Various
Rousseau, T. E.	48 - 2nd Ave., Quebec	Val Brillant
St. Francis Rock Products and Equipment Ltd.	8050 Bloomfield Ave., Montreal	St. Laurent Parish
Schetagne, Wilfrid	309 Bord du Lac, Pointe-Claire	Côte St. Charles
Shawinigan Chemicals Ltd.	Box 2670, Montreal	Bedford
Standard Clay Products Ltd.	Box 189, St. Johns	St. Johns Co.
Standard Lime Co. Ltd.	Joliette	St. Paul de Joliette
St. Laurent Quarry Ltd.	299 Monkland Blvd., St. Laurent	Belanger Twp.
St. Onge, Omer	St. Dominique de Bagot	St. Dominique
(x) Stone & Quarry Ltd.	6217 De Lanaudière, Montreal	St. François de Sales
Trappist Fathers	Village des Pères	Roberval
Tremblay, Napoleon	31 Rue Joffre, Hull	Hull
(x) Trudel Napoleon & Fils	Ste. Irenée	Saguenay Co.
Union des Carrières & Pavages Ltée.	3 Blvd. Charest, Quebec	Charlesbourg
Valleyfield, City of	Valleyfield	New Salaberry
Verreault, E. Ltd.	194 rue du Pont, Quebec	Giffard
Villeneuve, Francois	Pointe-au-Pic	Pointe-au-Pic
ONTARIO		
Bourgie, J. B.	Box 50, Embrun	Russell Co.
Brunner, Mond Canada Ltd.	Bank of Commerce Bldg., Toronto	Essex Co.
Canada Cement Co. Ltd.	Phillips Square Montreal, Que.	(Belleville, Lakefield)
Canada Crushed Stone Co. Ltd.	Sun Life Bldg., Hamilton	(Dundas, Hagersville)
Clyde Construction Co. Ltd.	Carleton Place	Carleton Place
Coldwater Crushed Stone Ltd.	Coldwater	Simcoe Co.
Cook, J. S.	Wiarton	Bruce Co.
Edgar Irvine Co. Ltd.	Alexandria	(Harrowsmith, Alexandria)
Grenon, Joseph V.	Casselman	Casselman
Grenville Crushed Rock Co. Ltd.	917 Keefer Bldg., Montreal	Oxford Mills
Gypsum Lime & Alabastine Can. Ltd.	Paris	Beachville & Milton
Hagersville Quarries Ltd.	Hagersville	Hagersville
Haldimand Quarries & Cons. Ltd.	Hagersville	Hagersville
(x) Henniger, M. G.	Smith's Falls	N. Elmsley Twp.
Innerkip Quarries Ltd.	Fleet St., Toronto	Innerkip
Jamieson Lime Co.	Renfrew	Renfrew
(x) Jupp, A. E. Construction Company Ltd.	170 Berkeley St., Toronto	Campbellford
Kehoe, P. J.	Brechin	Mara Twp.

STONE QUARRYING INDUSTRY

Note - (x) Firms operating dressing works in conjunction with quarry.

LIMESTONE (continued)

<u>Name</u>	<u>Head Office Address</u>	<u>Location</u>
ONTARIO - concluded.		
(x) Kingston Penitentiary Kirby, T. Sidney Co. Ltd.	Dept. of Justice, Ottawa 215 Sussex St., Ottawa	Portsmouth Gloucester Twp.
Kirkfield Crushed Stone Ltd.	Fleet St., Toronto	Kirkfield
Lake St. John Quarry Co. Ltd.	Sun Life Bldg., Hamilton	Longford Mills
Law Construction Ltd.	225 Sterling Road, Toronto	Owen Sound
Limestone Products Ltd.	1104 Hermant Bldg., Toronto	N. Orillia Twp.
McGinnis & O'Connor	412 King St., Kingston	Collins Bay
Noranda Mines Ltd.	804 Royal Bank Bldg., Toronto	Haileybury
North American Cyanamid Ltd.	Royal Bank Bldg., Toronto	Beachville
Northern Development Dept.	Parliament Bldgs., Toronto	Various
Ontario Department of Highways	Parliament Bldgs., Toronto	Various
Pembroke, Corp. of	Pembroke	Pembroke
Pirson, John	Stevensville	Bertie Twp.
(x) Queenston Quarries Ltd.	76 Sun Life Bldg., Hamilton	St. Davids
Walker Bros.	Box 586, Thorold	Stamford Twp.
Wehman, John	23 Plum St., Kingston	Kingston Twp.
Windmill Point Crushed Stone Co. Ltd.	225 Sterling Rd., Toronto	Port Colborne
MANITOBA		
(x) Gillies Quarries Ltd.	Richards & Spruce Sts., Winnipeg	{Garson (Poplarfield
Manitoba Dept. of Highways	Winnipeg	-
(x) Tyndall Quarry Co. Ltd.	1591 Erin St., Winnipeg	Garson
(x) Western Stone Co. Ltd.	401 Royal Bank Bldg., Winnipeg	Garson
Winnipeg, City of	Winnipeg	Stony Mountain
Winnipeg Supply & Fuel Co. Ltd.	812 Boyd Bldg., Winnipeg	(Spearhill (Stonewall
ALBERTA		
Loder's Lime Co. Ltd.	Kananaskis	Kananaskis
Summit Lime Works	Box 273, Lethbridge	Lethbridge
BRITISH COLUMBIA		
Beale, F. J.	Van Anda	Van Anda
B. C. Dept. of Highways	Victoria	Various
B. C. Pulp and Paper Co. Ltd.	Bank of Nova Scotia Bldg., Vancouver	Quatsino, M.D.
Christensen, P. (Koeye River Lime Quarries)	Namu	Namu
Cons. Mining & Smelting Co. of Can. Ltd.	Trail 101 W. 1st Ave., Vancouver	Procter (Seymour Creek (Coquitlam
Dekes Sand & Gravel Co. Ltd.	Ritchie	Ritchie
(x) Johnson, August (b)		
(b) Marl producer.		

DIRECTORY, 1936 (continued)

STONE QUARRYING INDUSTRY

Note - (x) Firms operating dressing works in conjunction with quarry.

LIMESTONE (concluded)

<u>Name</u>	<u>Head Office Address</u>	<u>Location</u>
<u>BRITISH COLUMBIA</u> -- concluded.		
Pacific Lime Co. Ltd.	744 Hastings St. W. Vancouver	Texada Island
(x) Priore & Vannucchi	Box 315, Trail	Fife
Trail, City of	Trail	Trail
Western Canada Lime Co. Ltd.	Box 535, Chilliwack	Chilliwack

MARBLE

<u>QUEBEC</u>		
<u>Lemieux</u> ' Malcome (Canada Marble & Lime Co. Reg.)	1502 St. Catherine St. W., Montreal	L'Annonciation
(x) Wallace Sandstone Quarries Ltd.	1135 Beaver Hall Hill, Montreal	Philipsburg
White Grit Co.	Hurdman Rd., Ottawa	Portage du Fort

ONTARIO

(x) Bolender Bros.	Haliburton	Haliburton
Bonter Marble & Calcium Co. Ltd.	Box 61, Marmora	Marmora Twp.
Cooper, Alf	2 Royal Bank Bldg., Fort William	Neebing Twp.
Orser, S.H. (ornamental stone products)	Verona	Verona
(x) Rock Construction Co. Ltd.	328 Dupont St., Toronto	Bancroft
Silvertone Black Marble Quarries Ltd.	305 O'Connor St., Ottawa	Stormont Co.
Stockloser, Karl	Madoc	Eldorado

MANITOBA

(x) Winnitoba Marble Co. Ltd.	1180 Wall St., Winnipeg	Fisher Branch, (R.R.)
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BRITISH COLUMBIA

Canadian Marble & Granite Works Ltd.	10702-101st St., Edmonton, Alta.	Marblehead
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SANDSTONE

Fairview Crushed Stone Co. Ltd.	609 Gottingen St., Halifax	Fairview
Nova Scotia Highways	Halifax	Various
(x) Wallace Sandstone Quarries Ltd.	1135 Beaver Hall Hill, Montreal, Que.	Wallace

NEW BRUNSWICK

(x) Smith, E. A.	Shediac	Shediac
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QUEBEC

Beauharnois Light, Heat and Power Co.	107 Craig St. W., Montreal	Beauharnois
Blais, Jas.	10 Ave. Mont-Marie-Lévis	St. Louis de Pintendre Nicholas

DIRECTORY, 1936 (continued)

STONE QUARRYING INDUSTRY

Note - (x) Firms operating dressing works in conjunction with quarry.

Name	SANDSTONE (concluded) Head Office Address	Location
<u>QUEBEC</u> - concluded		
Canadian Rock Products Ltd.	Box 159, Quebec	Kamouraska Co.
Citadel Brick Ltd.	14 St. Joseph St., Quebec	Lauzon
Rousseau, T. E.	48 - 2nd Ave., Quebec	(Leggats Point (New Carlisle
Sherbrooke, City of Vezina, Jos.	Sherbrooke Ste. Foy	Sherbrooke Ste. Foy
<u>ONTARIO</u>		
Campbell Sandstone Quarries Ltd.	165 Main St., Westboro	Nepean Twp.
Corner, Austin	Inglewood	Peel Co.
Mountain Sandstone Quarry	Box 307, Georgetown	Esquesing Twp.
Sykes, Thos.	Georgetown	Glen Williams
Terra Cotta Quarries	Glen Williams	Glen Williams
<u>ALBERTA</u>		
(x) Oliver, Wm.	Cochrane	Cochrane
<u>BRITISH COLUMBIA</u>		
Cons. Mining & Smelting Co. Ltd.	Trail	Kimberley
McDonald, J.A. & C. H. Ltd.	1571 Main St., Vancouver	Haddington and Gabriola Islds.
<u>QUEBEC</u>		
Broughton Soapstone & Quarry Co. Ltd. Williamson & Crombie	Broughton Station Kingsbury	Ste. Thérèse Twp. Kingsbury
<u>ONTARIO</u>		
(x) Crespey Slate Products Ltd.	Madoc	Madoc
(x) Canadian Slate Products Ltd.	11 King St. W., Toronto	Madoc
<u>BRITISH COLUMBIA</u>		
Brown, O. M.	Kapoor	Kapoor

SECONDARY PRODUCTION -

THE MONUMENTAL AND ORNAMENTAL STONE INDUSTRY - 1936.

In 1936 there were 227 stone dressing works not operating in conjunction with the producers' own quarries. These works were engaged chiefly in cutting and polishing Canadian or imported stone to produce finished monuments or dressed stone for construction purposes. Output from these establishments was valued at \$3,309,911 in 1936, a gain of 6 per cent over the \$3,079,118 in 1935. Ontario plants numbering 121 accounted for 56 per cent of the total production and the 47 works in Quebec made 18 per cent.

The average number of employees in this industry in 1936 was 1,245 compared with 1,066 in the previous year; payments in salaries and wages advanced to \$1,357,808 from \$1,174,229.

Purchased materials, excluding fuel and power, used in manufacturing cost \$1,070,902 in 1936 as against \$1,010,999 in 1935.

Output value of dressed monumental and ornamental stone advanced 1 per cent during 1936 to \$1,734,278 from \$1,732,601 while the value of dressed building stone declined 21 per cent to \$1,654,034 from \$2,094,843 in 1935.

Table 18 - PRINCIPAL STATISTICS OF THE MONUMENTAL AND ORNAMENTAL STONE INDUSTRY,
1925 - 1936.

Years	No. of plants	Capital employed	Average number of employees	Cost of			Gross value of products at works
				Salaries and wages	fuel and electricity	Cost of materials at works	
		\$		\$	\$	\$	\$
1925	214	5,015,729	1,262	1,811,512	96,929	1,964,817	5,355,997
1926	232	5,443,767	1,491	2,175,223	106,492	1,859,964	5,799,690
1927	228	5,758,806	1,514	2,255,638	112,895	1,798,672	5,606,984
1928	222	6,305,519	1,686	2,578,707	105,833	2,460,900	7,176,035
1929	220	7,107,162	1,863	3,048,084	138,508	2,788,934	8,224,060
1930	226	7,468,687	1,919	3,044,877	147,459	2,759,870	8,355,605
1931	223	6,880,835	1,436	2,145,023	136,135	1,770,559	5,989,372
1932	206	5,828,109	1,003	1,200,214	108,053	928,572	2,961,914
1933	212	5,461,171	821	841,425	87,562	691,525	2,162,650
1934	218	5,194,702	881	886,809	90,874	834,323	2,407,474
1935	222	5,180,887	1,066	1,174,229	107,836	1,010,999	3,079,118
1936	227	5,766,308	1,245	1,357,808	127,151	1,070,902	3,309,911

Table 19 - PRINCIPAL STATISTICS OF THE MONUMENTAL AND ORNAMENTAL STONE INDUSTRY,
BY PROVINCES, 1935 and 1936.

Years	No. of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross value of products at works
1935		\$		\$	\$	\$	\$
Prince Edward Island	3	45,254	5	6,000	189	11,233	30,622
Nova Scotia	8	72,205	24	24,205	1,711	39,112	95,294
New Brunswick	6	49,144	20	17,868	1,771	8,727	41,543
Quebec	49	1,023,577	272	276,253	32,662	227,187	672,970
Ontario	116	3,141,302	557	664,003	57,114	603,691	1,794,919
Manitoba	13	281,318	73	66,177	5,543	56,441	153,843
Saskatchewan	9	155,886	35	35,410	3,256	26,361	98,114
Alberta	5	257,512	34	37,465	2,292	18,802	103,168
British Columbia ..	13	154,689	46	46,848	3,298	19,445	88,645
CANADA	222	5,180,887	1,066	1,174,229	107,836	1,010,999	3,079,118
1936		\$		\$	\$	\$	\$
Prince Edward Island	2	48,050	9	9,205	200	9,507	27,033
Nova Scotia	9	76,112	27	25,431	1,957	39,131	98,681
New Brunswick	6	72,453	28	24,424	1,618	14,810	52,541
Quebec	47	1,015,058	306	273,802	31,434	181,093	598,388
Ontario	121	3,521,175	625	738,620	72,258	655,373	1,863,491
Manitoba	14	269,280	64	57,799	3,592	48,180	139,391
Saskatchewan	9	150,438	42	46,643	3,937	43,769	134,002
Alberta	5	257,868	32	38,353	2,335	12,957	90,634
British Columbia ..	14	355,874	112	143,531	9,820	66,082	305,750
CANADA	227	5,766,308	1,245	1,357,808	127,151	1,070,902	3,309,911

Table 20 - CAPITAL EMPLOYED IN THE MONUMENTAL AND ORNAMENTAL STONE INDUSTRY, 1935 and 1936

Provinces	Present value of land, buildings, fixtures, machinery and tools	Inventory value of materials on hand, finished products and stocks in process	Operating capital (cash, bills and accounts receivable, TOTAL prepaid expenses, etc.)	CAPITAL EMPLOYED
1935	\$	\$	\$	\$
Prince Edward Island .	24,300	7,700	13,254	45,254
Nova Scotia	44,265	11,084	16,856	72,205
New Brunswick	25,800	15,793	7,551	49,144
Quebec	659,834	272,992	90,751	1,023,577
Ontario	1,991,288	572,659	577,355	3,141,302
Manitoba	56,420	119,238	105,660	281,318
Saskatchewan	68,019	36,785	51,082	155,886
Alberta	142,122	37,863	77,527	257,512
British Columbia	89,497	34,920	30,272	154,689
CANADA	3,101,545	1,109,034	970,308	5,180,887
1936				
Prince Edward Island .	13,000	22,350	12,700	48,050
Nova Scotia	40,750	14,433	20,929	76,112
New Brunswick	41,266	19,133	12,054	72,453
Quebec	672,424	248,857	93,777	1,015,058
Ontario	2,373,456	532,986	614,733	3,521,175
Manitoba	80,035	109,611	79,634	269,280
Saskatchewan	61,917	37,544	50,977	150,438
Alberta	145,117	38,624	74,127	257,868
British Columbia	259,833	38,035	58,006	355,874
CANADA	3,687,798	1,061,573	1,016,937	5,766,308

Table 21 - SIZE OF ESTABLISHMENTS ACCORDING TO PRODUCTION, NUMBER OF EMPLOYEES AND CAPITAL EMPLOYED, 1936.

	Number of plants	Capital employed \$	Number of employees	Selling value of products at works \$
(a) PRODUCTION				
Under \$5,000	78	498,369	120	235,238
\$5,000 to \$10,000	69	743,960	171	514,379
\$10,001 to \$25,000	51	1,210,112	285	800,594
\$25,001 to \$50,000	17	1,045,343	256	658,575
\$50,001 to \$100,000	8	837,730	239	540,821
Over \$100,000	4	1,430,794	174	560,304
TOTAL	227	5,766,308	1,245	3,309,911
(b) NUMBER OF EMPLOYEES				
1 or 2	109	679,046	158	509,548
3 to 10	90	1,614,368	413	1,118,394
11 to 20	17	1,294,446	245	678,239
Over 20	11	2,178,448	429	1,003,730
TOTAL	227	5,766,308	1,245	3,309,911
(c) CAPITAL EMPLOYED				
Under \$25,000	181	1,499,958	551	1,419,266
\$25,000 to \$100,000	35	1,685,412	367	970,538
Over \$100,000	11	2,580,938	327	920,107
TOTAL	227	5,766,308	1,245	3,309,911

Table 22 - EMPLOYEES, SALARIES AND WAGES OF THE MONUMENTAL AND ORNAMENTAL STONE INDUSTRY, BY PROVINCES, 1935 and 1936.

Provinces	AVERAGE NUMBER OF EMPLOYEES					Salaries \$	Wages \$	TOTAL SALARIES AND WAGES \$			
	On salaries		On wages								
	Male	Female	Male	Female	Total						
1935											
Prince Edward Island	2	-	3	-	5	3,000	3,000	6,000			
Nova Scotia ...	8	1	15	-	24	12,198	12,007	24,205			
New Brunswick .	6	2	12	-	20	8,219	9,649	17,868			
Quebec	73	4	195	-	272	96,144	180,109	276,253			
Ontario	150	19	386	2	557	234,146	429,857	664,003			
Manitoba	17	4	52	-	73	20,983	45,194	66,177			
Saskatchewan ..	12	1	21	1	35	16,741	18,669	35,410			
Alberta	6	4	24	-	34	15,032	24,433	37,465			
British Columbia 18	1	27	-	-	46	20,265	26,583	46,848			
CANADA	292	36	735	3	1,066	424,728	749,501	1,174,229			
1936											
Prince Edward Island	2	-	7	-	9	3,500	5,705	9,205			
Nova Scotia ...	6	1	20	-	27	9,600	15,831	25,431			
New Brunswick .	8	3	16	1	28	9,932	14,492	24,424			
Quebec	68	4	234	-	306	96,738	177,064	273,802			
Ontario	179	24	419	3	625	287,045	451,575	738,620			
Manitoba	15	7	42	-	64	21,728	36,071	57,799			
Saskatchewan ..	15	1	26	-	42	18,551	28,092	46,643			
Alberta	10	3	19	-	32	18,285	20,068	38,353			
British Columbia 25	1	85	-	1	112	34,137	109,394	143,531			
CANADA	328	44	868	5	1,245	499,516	858,292	1,357,808			

Table 23 - WAGE-EARNERS, BY MONTHS, 1935 and 1936 (On the 15th or nearest representative date)

Months	1935			1936		
	Male	Female	Total	Male	Female	Total
January	272	2	274	540	2	542
February	531	2	533	544	2	546
March	448	2	450	704	2	706
April	667	2	669	823	4	827
May	861	3	864	927	3	930
June	927	3	930	1,047	4	1,051
July	962	3	965	1,155	4	1,159
August	980	3	983	1,136	4	1,140
September	938	3	941	1,047	5	1,052
October	848	2	850	961	4	965
November	760	2	762	798	3	801
December	559	2	561	638	2	640
AVERAGE	735	3	1,066	868	5	873

Table 24 - WAGE-EARNERS IN THE MONTH OF HIGHEST EMPLOYMENT, ACCORDING TO REGULAR HOURS WORKED PER WEEK (OVERTIME NOT INCLUDED) 1935 and 1936.

(Since the month of highest employment was not the same for each plant the figures given in this table are not for any particular month and the total is greater than the highest monthly figure shown in Table 24.)

Regular hours worked per week	No. of Employees		Regular hours worked per week	No. of Employees	
	1935	1936		1935	1936
40 hours or less	212	318	51-53 hours	36	61
41-43 hours	13	15	54 hours	36	30
44 hours	444	445	55 hours	64	67
45-47 hours	25	51	56-59 hours	25	42
48 hours	146	169	60 hours and over	33	64
49-50 hours	97	70		TOTAL 1,151	1,332

Table 25 - FUEL AND ELECTRICITY USED IN THE MONUMENTAL AND ORNAMENTAL STONE INDUSTRY, 1935 and 1936

Kinds	Unit of measure	1935		1936	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Bituminous coal - Canadian ..	short ton	265	1,956	541	4,341
Imported ..	short ton	122	1,036	172	1,632
Anthracite coal	short ton	145	2,428	566	5,014
Lignite coal	short ton	32	228	29	245
Coke	short ton	246	2,282	179	1,779
Gasoline	Imp. gal.	2,451	646	4,691	1,402
Kerosene or coal oil	Imp. gal.	1,596	197	44	8
Fuel oil	Imp. gal.	34,251	2,214	195,168	11,878
Wood	cord	321	1,692	281	1,630
Gas - Manufactured	M cu. ft.	152	162	64	60
Natural	M cu. ft.	1,313	859	2,525	1,533
Other fuel	XXX	-	7	-	591
Electricity purchased	k. w. h.	4,362,277	94,129	5,688,797	97,038
TOTAL	XXX	-	107,836	-	127,151

Table 26 - POWER EQUIPMENT IN THE MONUMENTAL AND ORNAMENTAL STONE INDUSTRY, 1935 and 1936.

Kinds	1935		1936	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines & steam turbines	-	-	4	60
Diesel engines	2	56	2	56
Gasoline, gas and oil engines	8	145	8	146
Total Primary Equipment	10	201	14	262
Electric motors run by purchased power	650	9,515	746	10,676
TOTAL	660	9,716	760	10,938
Total Electric Motors	650	9,515	746	10,676
Boilers	6	225	5	105

Table 27 - COST OF STONE USED IN THE MONUMENTAL AND ORNAMENTAL STONE INDUSTRY, 1935 and 1936.

	Cost at works	
	1935	1936
Cost of all stone used	\$ 854,832	\$ 917,898
All other materials	156,167	153,004
TOTAL	1,010,999	1,070,902

Table 28 - PRODUCTS OF THE MONUMENTAL AND ORNAMENTAL STONE INDUSTRY, 1935 and 1936.

Products	TOTAL SELLING VALUE AT WORKS	
	1935	1936
Granite, cut and polished -		
(a) Monuments	1,268,414	1,317,005
(b) For building purposes ..	184,033	330,306
Marble, cut and polished -		
(a) Monuments	158,249	150,629
(b) For building purposes ..	130,227	175,834
Marble chips and dust	11,870	12,807
Limestone -		
(a) Monuments and bases	26,690	35,162
(b) For building purposes ..	837,985	514,375
Finished monuments, lettered only	389,556	410,640
Other products	24,887	299,827
Repairs and custom work (re-lettering, etc.)	47,207	63,326
TOTAL	3,079,118	3,309,911

Table 29 - PRODUCTION FROM THE MONUMENTAL AND ORNAMENTAL STONE INDUSTRY, BY PROVINCES, 1935 and 1936.

	GRANITE		MARBLE		LIMESTONE		Finished:			TOTAL
	For Monu- ments building: purposes:		For Monu- ments building: purposes		Marble chips and dust: and bases		For Monu- ments building: purposes		Monu- ments, lettered: only	
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Prince Edward Island -										
1935	8,300	-	12,511	-	-	2,000	-	7,811	-	30,622
1936	7,900	30	12,800	23	-	-	-	6,280	-	27,033
Nova Scotia -										
1935	58,039	-	10,589	200	-	2,430	-	22,212	1,824	95,294
1936	63,801	-	11,631	200	-	2,953	-	19,038	1,058	98,681
New Brunswick -										
1935	33,665	1,710	1,725	-	-	1,785	-	2,225	433	41,543
1936	48,231	1,100	-	620	-	140	-	2,180	270	52,541
Quebec -										
1935	270,464	73,659	22,181	41,721	647	2,130	215,450	31,294	15,424	672,970
1936	321,039	117,068	19,715	48,759	1,047	3,190	40,621	19,691	27,258	598,388
Ontario -										
1935	707,889	60,395	64,565	64,882	2,775	9,605	566,538	271,187	47,083	1,794,919
1936	699,148	37,159	60,015	36,107	210	18,041	435,754	289,282	287,775	1,863,491
Manitoba -										
1935	56,793	20,093	6,661	13,539	900	2,139	27,382	25,601	735	153,843
1936	51,485	210	3,949	33,531	5,658	1,368	9,872	32,146	1,172	139,391
Saskatchewan -										
1935	40,200	5,043	18,206	2,450	500	5,751	13,615	9,597	2,752	98,114
1936	42,616	1,455	20,716	2,087	840	7,320	18,128	9,170	31,670	134,002
Alberta -										
1935	48,048	6,000	15,136	4,000	7,013	850	15,000	5,495	1,626	103,168
1936	40,110	4,000	14,072	4,000	5,031	2,150	10,000	9,401	1,870	90,634
British Columbia -										
1935	45,016	17,133	6,675	3,435	35	-	-	14,134	2,217	88,645
1936	42,675	169,284	7,731	50,507	21	-	-	23,452	12,080	305,750
CANADA -										
1935	1,268,414	184,033	158,249	130,227	11,870	26,690	837,985	389,556	72,094	3,079,118
1936	1,317,005	330,306	150,629	175,834	12,807	35,162	514,375	410,640	363,153	3,309,911

Table 30 - TOTAL PRODUCTION IN CANADA OF DRESSED BUILDING STONE, 1925 - 1936.

Years	GRANITE		MARBLE		LIMESTONE		Sand-stone from quarries	TOTAL
	From quarries	From dressing works	From quarries	From dressing works	From quarries	From dressing works		
	\$	\$	\$	\$	\$	\$		
1925 ..	236,651	73,376	223,840	573,602	378,194	1,909,212	18,114	3,412,989
1926 ..	190,711	74,792	4,500	644,945	662,211	1,969,755	13,036	3,559,950
1927 ..	267,194	83,877	-	673,126	716,929	1,713,445	8,784	3,463,355
1928 ..	667,050	314,553	340,585	883,076	702,081	2,861,336	18,000	5,786,681
1929 ..	746,537	465,185	347,256	1,621,112	944,491	2,739,504	92,500	6,956,585
1930 ..	1,189,120	902,519	687,115	1,339,108	1,416,277	2,706,390	286,972	8,527,501
1931 ..	1,011,499	1,032,202	576,458	1,054,952	1,085,767	1,372,121	686,616	6,819,615
1932 ..	336,632	79,136	188,743	339,627	348,187	636,294	20,580	1,949,199
1933 ..	114,318	40,224	27,377	73,445	111,235	281,074	19,300	666,973
1934 ..	216,574	35,957	-	137,902	173,536	280,279	5,500	849,748
1935 ..	403,951	184,033	16,000	130,227	425,247	837,985	97,400	2,094,843
1936 ..	171,858	330,306	104,738	175,834	189,064	514,375	167,859	1,654,034

Table 31 - TOTAL PRODUCTION IN CANADA OF DRESSED MONUMENTAL AND ORNAMENTAL STONE,
1925 - 1936.

Years	GRANITE		MARBLE		LIMESTONE		TOTAL
	From quarries	From dressing works	From quarries	From dressing works	From quarries	From dressing works	
	\$	\$	\$	\$	\$	\$	
1925 ..	188,513	1,387,658	-	292,621	754	154,488	2,024,034
1926 ..	196,820	1,619,206	466,648	376,359	3,908	94,446	2,757,887
1927 ..	147,510	1,728,293	449,717	420,651	1,523	97,264	2,844,958
1928 ..	125,744	1,718,988	9,700	404,058	2,237	132,406	2,393,133
1929 ..	149,810	1,815,463	-	391,947	4,722	325,876	2,687,818
1930 ..	111,504	1,815,143	-	350,323	3,577	319,472	2,600,019
1931 ..	251,379	1,584,099	-	257,668	6,300	43,584	2,143,030
1932 ..	196,071	1,164,283	-	180,323	2,532	43,652	1,586,861
1933 ..	215,616	1,111,354	-	200,313	2,868	30,370	1,560,521
1934 ..	244,286	1,271,009	24,342	168,201	3,488	27,036	1,738,362
1935 ..	277,568	1,268,414	-	158,249	1,680	26,690	1,732,601
1936 ..	231,482	1,317,005	-	150,629	-	35,162	1,734,278

DIRECTOR OF FIRMS IN THE MONUMENTAL AND ORNAMENTAL STONE INDUSTRY, 1936.

NOTE - These dressing works are operated separately from the quarries.

<u>Names of Companies</u>	<u>Location of Plants</u>
<u>PRINCE EDWARD ISLAND</u> -	
Beck, Vere & Son	Main St., Montague
Chandler & Bell	Malpeque Road, Charlottetown
Summerside Monument Works	78 Ottawa St., Summerside
<u>NOVA SCOTIA</u> -	
Dauphinee, A. T.	Horton St., Yarmouth
Gray, W. F.	108 Gerrish St., Halifax
Keltie, Robert & Son	687 Barrington St., Halifax
Rottler, A. A.	Main St., Kentville
Steele, John D., & Sons	Commercial St., North Sydney
Tingley, Harold	13 Merkel St., Halifax
Tingley, J. A., Granite Works	Amherst
Truro Marble & Granite Works	907 Prince St., Truro
Nixon's Monumental Works	R.R. 3, Middleton
<u>NEW BRUNSWICK</u> -	
Kane, M. T., & Co. Ltd.	Westmoreland Rd., Saint John
Miramichi Granite & Marble Works	Chatham
Moore, John, & Sons	130 Carleton St., Fredericton
O'Brien & Baldwin	St. George
St. Stephen Granite Works	Queen St., St. Stephen
Sherrard, T. F. & Son	135 Victoria St., Moncton
Shields, J. A.	Water St., St. Stephen
<u>QUEBEC</u> -	
Beaudet & Frenette Ltée.	Mont Joli
Beaulieu, Elzear	Ste. Helene, Kamouraska
Beebe Monumental Company	Beebe
Berson, L., & Son	3896 St. Lawrence Blvd., Montreal
Brault, Z.	1 Champlain St., Valleyfield
Brodie's Ltd.	9th Ave., Iberville
Brunet, A.	Ormstown
Brunet, J., Limitée	4485 Chemin Cote des Neiges, Montreal
Caron, E.	Ste. Anne de Beaupre
Chabot, J. Ray	Scott Junction Co. Dorchester
Chausse, Edouard & Fils	57 rue Aberdeen, Sherbrooke
Cote, Valere	187 First Ave., Quebec
Crete, James	178 Sophie St., Sorel
Dalceggio, F.	4588 Chemin Cote des Neiges, Montreal
Daudelin, Napoleon	92 St. Antoine St., St. Hyacinthe
Delwaide & Goffin	16 rue du Havre, Chicoutimi
Ducharme, J. Maurice	257 Notre Dame St., Victoriaville
Dugas, Joseph	191 St. Charles Borrome, Joliette
Dussault, Theo. & Cie.	Mont Laurier
Fortin, Dollard	St. David de Levis
Godin & Delisle	1253 St. Valier St., Quebec
Gignac, Azarias	St. Alban
Gordon Stone Monument Reg'd.	4374 St. Lawrence Blvd., Montreal
Gosselin, Oscar	Lake Megantic (Frontenac Co.)
Gingras, Roch	Ste. Foye
Gosselin, Arsene	Cote de la Station, Beauceville Est

D I R E C T O R Y (continued)

MONUMENTAL AND ORNAMENTAL STONE INDUSTRY, 1936. (continued)

<u>Names of Companies</u>	<u>Location of Plants</u>
<u>QUEBEC - concluded</u>	
Hansford, Frank	14 Baldwin St., Coaticook
Hawkins, S.	1116 Bleury St., Montreal
Hurtubise, Albert	6752 Sherbrooke St. E., Montreal
Lachute Marble & Granite Works	Main St., Lachute
Lafresnaye, Louis	Riviere du Loup
Lasalle Stone Co. Ltd.	Lafleur Ave., Ville La Salle
Leblanc, J. A.	Carleton Centre, Bonaventure Co.
Lefebvre, J. A.	78 Third St., Limoilou, Quebec
Michelin & Dessureault, Reg'd.	1035 Desforges Blvd., Three Rivers
National Granite Works Ltd.	Iberville
Paquin, Laurent	1043 Blvd. des Forges, Three Rivers
Poulin, P. A.	222 Champlain St., St. Jean
Quinlan Cut Stone Ltd.	Bois Franc Rd., St. Laurent
Roberge, Theodule	69 Boulevard Langelier, Quebec
Robertson, Fred	Beebe Jct.
Rolland, J. A.	1285 rue St. Valier, Quebec
Savard, J. Bte.	Ste. Anne de la Perade
Smith Bros. Memorial Art Ltd.	1195 Ducharme St., Montreal
Smith Marble & Cons. Co. Ltd.	207 Van Horne Ave., Montreal
Sutton Marble & Granite Co.	Sutton
Thompson, T. C.	270 Wellington St. S., Sherbrooke
Thuot & Denicourt	87 Fourth St., Iberville
Todoro & Bigras	3275 Desautels St., Montreal
Tremblay, Geo. E.	113 Ninth Ave., Iberville
Wallace Sandstone Quarries Ltd.	Phillipsburg
<u>ONTARIO -</u>	
Allen Bros.	11 Cambridge St., Lindsay
Alpaugh, J., & Sons	St. Andrews St., Fergus
Ambroise, L. & Son	58 Alma St., Guelph
Austin, P. O.	44 Corborne St., Simcoe
Bayne, D. M.	Kemptville
Beaver Marble & Granite	Brock St. W., Uxbridge
Benzie, W. E.	649 York St., Hamilton
Bounsell, A. H.	Division St., Bowmanville
Bawden Marble & Granite	782 Second Ave., E., Owen Sound
Bowers, Chas. Henry	226 King St., Prescott
Bradfield, W. & Son	335 Main St., Simcoe
Brampton Monument Works	68 Queen St. W., Brampton
Brantford Monument Works	Cor. Gray and Market Sts., Brantford
Braun, Casper	16 Andrew St., Kitchener
Brockville Cemetery Memorial Works	R. R. 3, Brockville
Brown, R., & Son	376 Sparks St., Ottawa
Brown, Geo., Monumental Works	473 Bronson Ave., Ottawa
Campbell, A. C.	21 Bridge St. W., Belleville
Canadian Cut Stone Co.	5 Isabella St., Ottawa
Chapman, Wm. E.	Seaforth
Clarke, D., & Co.	1054 Howard Ave., Windsor
Cobourg Granite & Marble Works	King St., Cobourg

DIRECTORY (continued)

MONUMENTAL AND ORNAMENTAL STONE INDUSTRY, 1936 (continued)

Name of Companies	Location
ONTARIO - continued	
Colby, C. H.	39 Market Square, Chatham
Collingwood Granite & Marble Works	Simcoe St., Collingwood
Corley, A. C.	Main St., Brighton
Coughlin Monumental Works	216 Hunter St., W., Peterborough
Creber Son & Co.	1333 St. Clair Ave., W., Toronto
Cresswell, W. H.	187 Kent St., Lindsay
Crocker Reid Monument Co. Ltd.	Toronto-Hamilton Highway, Toronto
Cunningham & Pryde	Main St., Exeter
Dillon, Joseph	55 Stone St., Gananoque
Doyle, J. E.	269 Eighth St. E., Owen Sound
Elgin Memorial Work	20 Elgin St., St. Thomas
Excelsior Granite & Marble Works	123 Pitt St. E., Windsor
Fallon Bros.	393 Princess St., Kingston
Froats, George & Co.	Argyle St., Renfrew
Galt Monumental Works	62 Water St. N., Galt
George, John J.	Port Elgin
Gladstone & Ross	388 E. Brock St., Fort William
Guelph Marble and Granite Works	Elora Rd., Guelph
Hardwick, H. G.	30 Ottawa St. N., Hamilton
Hayes Bros. Co.	290 Klock Ave., North Bay
Herbert & Geard	995 Barton St. E., Hamilton
Hibberd, Arthur, Cut stone	195 Melita Ave., Toronto
Humberstone Cut Stone & Monumental Works	590 King St., Humberstone
Ideal Monument Works	R. R. 4, Springbank Drive, London
Johnston & Cranston	1849 Yonge St., Toronto
Jones, Thomas C.	Wallace St., Listowel
Jones & Stevens	277 Rideau St., Ottawa
Jones, W. A. & Sons	Main St. W., Picton
Kilvington Bros. Limited	1375 St. Clair Ave., Toronto
Kingsway Monuments	3655 Dundas St. W., Toronto
Lake Superior Granite & Marble Works	111 Wellington St. W., Sault Ste. Marie
Laings Memorials	16 Elma St., Cornwall
Laurin, J. P.	95 George St., Ottawa
Leamington Granite & Marble Works	75 Erie St. N., Leamington
London Marble & Granite Co. Ltd.	495 Richmond St., London
Luesby, George W.	178 Main St., Newmarket
Martel, & Son	Main St., Vankleek Hill
McCallum Granite Co. Ltd.	397 Princess St., Kingston
McIntosh Granite Co.	1119 Yonge St., Toronto
McIntyre, George	60 Danforth Ave., Toronto
McKay Cut Stone Co.	65 Shalmar Ave., Forest Hill Village
McMillan Granite Co. Ltd.	105 Ontario St., Sarnia
Memorial Company of Toronto	2299 Bloor St. W., Toronto
Middleton Marble & Granite Co. Ltd.	122 Main St. E., Hamilton
Monumental Art Co.	2168 Dundas St. W., Toronto
Napanee Memorial Granite Works	Dundas St., Napanee
Niagara Cut Stone Co. Ltd.	Buttrey St., Niagara Falls
Nichol, John	Acton
Nicholsons Cut Stone Ltd.	Copeland St., Leaside

DIRECTORY (continued)

MONUMENTAL AND ORNAMENTAL STONE INDUSTRY, 1936 (continued)

Name of Companies	Location of Plants
ONTARIO - continued	
Nobbs, E. E.	William St., London
Oakley, Geo., & Sons, Ltd.	355 Logan Ave., Toronto
Ontario Marble Co. Ltd.	Maria St., Peterboro
Orillia Monument Co.	252 Coldwater Rd. W., Orillia
Patterson & Cornelius	428 Queenston Rd., St. Catharines
Peirce & Co.	295 Lorne St. S., Sudbury
Pine Hills Monument Co.	Danforth & Kennedy, Scarboro Jct.
Pollard & Miller	715 Queen St. E., Sault Ste. Marie
Pollock & Ingham	151 Main St., Galt
Porterfield & Colquhoun	Mitchell
Port Hope Monument Works	Ontario St., Port Hope
Rhodes Memorials Ltd.	Cayuga
Richardson, R. H.	Victoria St., Hanover
Rigg Bros.	605 Queen St., Niagara Falls
Rivercourt Memorials	300 Don Mills Road, Toronto
Ritchie Cut Stone Co. Ltd.	New Toronto St., New Toronto
Ritchie Stone Co.	51 Catherine St., Ottawa
Rock Wool Corp. (Canada) Ltd.	38 Elgin St., Brantford
Ruch, L. J., and Son	38 Avondale Ave., Stratford
Rutledge, S. H.	Broadway Ave., Orangeville
Sanderson, R. J., Marble Co.	33 Peter St., S., Orillia
Scott Bros. Cut Stone Limited	36 McGee St., Toronto
Skelton, E. J. and Son	Yonge St., Walkerton
Smith, M., Granite Works	Merrickville
Smith Memorial Works	1539 Main St., E., Hamilton
Smith Monument Co.	349 Weston Road, Toronto
Smyth & Son	344 Wellington St., London
Snider, I. R.	106 E. Main St., Humberstone
Spotton, R. A.	Wingham
Spun Rock Wools Ltd.	65 Ormond St., Thorold
Standard Stone Co. Ltd.	1704 Howard Ave., Windsor
Stead, Arthur, Cut Stone Co. Ltd.	Frid St., Hamilton
Steiner's Monuments	321 College St., Toronto
Stubbs & Gibson	Morrisburg and Winchester
Strathroy Granite & Marble Co. Ltd.	Strathroy
Sudbury Memorial Works	453 Annley St., Sudbury
Taub Monuments	497 Bathurst St., Toronto
Telephone City Memorial Works	59 Colborne St., Brantford
Terrell, Walter	356 Hopewell Ave., Toronto
Thomas, Geo., & Son	Industrial St., Leaside
Thomson Monument Co. Ltd., The	862 Dupont St., Toronto
Toronto Monumental Co.	153 St. Patrick St., Toronto
Trenton Marble & Granite Works	Cor. Front and Ford Sts., Trenton
Twin City Monument Co.	King St. E., Kitchener
Wardell Monumental Works	2692 Dundas St. W., Toronto
Westport Marble Works	Mill St., Westport
Widdicombe, E.	5 Bond St., St. Catharines
Wideman, L.C., & Son	Stouffville
Wilcox Granite Co.	Plains Road, Hamilton

D I R E C T O R Y (concluded)

MONUMENTAL AND ORNAMENTAL STONE INDUSTRY, 1936 (concluded)

<u>Names of Companies</u>	<u>Location of Plants</u>
<u>ONTARIO - concluded</u>	
Williamson, W.A., & Sons	William St., Gananoque
Williscroft, B. A.	868 Third Ave. E., Owen Sound
<u>MANITOBA</u>	
Allen & Grants	405 Youville St., St. Boniface
Brunet, Joseph O.	207 Lawndale Ave., Norwood
Brooke, J. H., & Sons	266 Main St., Winnipeg
Campbell Bros.	90 Hespeler Ave., Winnipeg
Gauthier, Joseph	554½ Des Meurons St., St. Boniface
Guinn & Simpson Co. Ltd.	52 Tupper St. N., Portage la Prairie
Hoopers Memorial Co.	481 Notre Dame Ave., Winnipeg
MacIntyre, A. L.	361 Bannatyne Ave., Winnipeg
Memorial Marble & Tile Co. Ltd.	1180 Wall St., Winnipeg
Neepawa Marble & Granite Works	Neepawa
Peirson, C. H.	201 Sixth St., Brandon
Rennie, D., Memorials	532 Notre Dame Ave., Winnipeg
Somerville & Co.	1417 Rosser Ave., Brandon
Wheeldon & Sons	1055 Main St., Winnipeg
<u>SASKATCHEWAN -</u>	
Best Monumental Co.	721 Caribou St. W., Moose Jaw
Moloro Marble & Stone Works	404 Ontario Ave., Saskatoon
Moose Jaw Marble & Granite Works Ltd.	706 Athabasca St. E., Moose Jaw
Regina Monumental Co.	2537 Railway St., Regina
Sask. Marble & Construction Co. Ltd.	140 Sixth St. E., Prince Albert
Saskatoon Granite & Marble Works Ltd.	137 Ave. A., North, Saskatoon
Western Granite, Marble & Stone Co. Ltd.	714 Second Ave., North, Saskatoon
Yorkton Monumental Works	20 Agricultural Ave., Yorkton
Young, Alex., Ltd.	Scarth St., and Fourth Ave., Regina
<u>ALBERTA -</u>	
Alberta Granite, Marble & Stone Co. Ltd.	10702 - 101st St., Edmonton
Hart, Albert J.	1821 Second St. E., Calgary
Lethbridge Monumental & Tile Works	325 Eighth St. S., Lethbridge
McDonald Granite Co. Ltd.	2313 Second St. E., Calgary
North West Granite & Marble Co.,	8537 - 109th St., Edmonton
<u>BRITISH COLUMBIA -</u>	
Allan, A. S., & Co. Ltd.	880 Beach Ave., Vancouver
Art Monument Co. Ltd.	602 Kingsway, Vancouver
B. C. Memorial	422 Lorne St., Kamloops
Bertram Marble and Granite Works	4880 Fraser Ave., Vancouver
Burnaby Monumental Works	2655 Patterson Ave., Burnaby
Continental Marble Co. Ltd.	1002 Georgia St. E., Vancouver
Forster Monumental Works	5528 Fraser St., Vancouver
Kingsway Monumental Works	3070 Kingsway St., Vancouver
McDonald, J.A. & C.H., Ltd.	1571 Main St., Vancouver
Millins, C. E. J.	Pine St. and Comox Rd., Nanaimo
Mortimer, J., & Son	George Rd. and Government St., Victoria
Patterson & Chandler	5498 Fraser St., Vancouver
Stewart Monumental Works Ltd.	1401 May St., Victoria
Westaway Monumental Works	143 Columbia St. E., New Westminster
Willey, C. E.	4695 Fraser Ave., Vancouver

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